INTERNATIONAL STANDARD

ISO 7786

Second edition 1990-08-01

Dental rotary instruments — Laboratory abrasive instruments

iTeh Struments rotatifs dentaires – Instruments abrasifs de laboratoire (standards.iteh.ai)

<u>ISO 7786:1990</u> https://standards.iteh.ai/catalog/standards/sist/4bbfaa0f-da27-4062-9719f2a296707b30/iso-7786-1990



Reference number ISO 7786:1990(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies VIEW casting a vote.

International Standard ISO 7786 was prepared by Technical Committee ISO/TC 106, Dentistry.

This second edition cancels and replaces the ^{IS}first⁸ edition (ISO 7786:1984), of which it constitutes a minor revision incorporating draft da27-4062-9719-Addendum 1 of 1988. E2a296707b30/iso-7786-1990

© ISO 1990

All rights reserved. No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Organization for Standardization

Case Postale 56 • CH-1211 Genève 20 • Switzerland Printed in Switzerland

ii

Introduction

This International Standard is one of a series of standards relating to dental rotary instruments.

The various dimensional and other requirements specified herein are those considered important to ensure the interchangeability of laboratory abrasive instruments.

Attention is drawn to ISO 6360-1 which specifies a 15 digit number for the identification of dental rotary instruments of all types.

iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>ISO 7786:1990</u> https://standards.iteh.ai/catalog/standards/sist/4bbfaa0f-da27-4062-9719f2a296707b30/iso-7786-1990

iTeh STANDARD PREVIEW (standards.iteh.ai) This page intentionally left blank

ISO 7786:1990 https://standards.iteh.ai/catalog/standards/sist/4bbfaa0f-da27-4062-9719f2a296707b30/iso-7786-1990

Dental rotary instruments — Laboratory abrasive instruments

Scope 1

This International Standard specifies the dimensional and other requirements for grinding instruments used in the dental laboratory.

Other characteristics of dental abrasive instruments are not covered by this International Standard. These will be dealt with in a future International Standard.

ISO 6360-1:1985, Dental rotary instruments - Number coding system Part 1: General characteristics.

ISO 8325:1985, Dental rotary instruments - Test methods.

Symbols 3

The following symbols are used in this International iTeh STANDARD Standard VIEW

(standards.itch.iameter of the working part, head diameter.

length of the working part, head length. l_1

2 Normative references ISO 7786:1990, overall length https://standards.iteh.ai/catalog/standards/sist/4bbfaa01-da27-4082-9719-The following standards contain provisions6/which use of the standards in the standards of the standards in the stand through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 1797:1985, Dental rotary instruments — Shanks.

ISO 2157:1984, Dental rotary instruments - Nominal sizes and designation.

ISO 2859-1:1989, Sampling procedures for inspection by attributes - Part 1: Sampling plans indexed by acceptable quality level (AQL) for lot-by-lot inspection.

Material

The shaft shall be made of steel or other suitable material. The selection of the type of steel and the treatment given to it shall be left to the discretion of the manufacturer. The working part shall be made of abrasive materials. The selection of the type, the bonding and the treatment of the abrasive material shall be left to the discretion of the manufacturer.

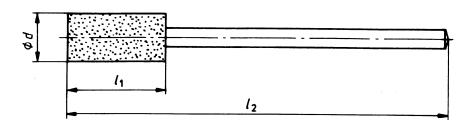
Dimensions 5

All dimensions are in millimetres.

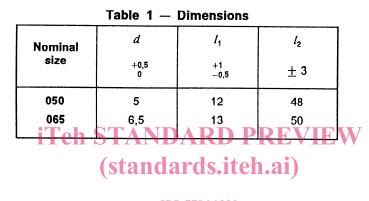
The dimensions, determined as described in ISO 8325, shall be as specified in table 1 to table 9 and as shown in figure 1 to figure 9.

The shank shall be type 2 of ISO 1797.

5.1 Cylindrical







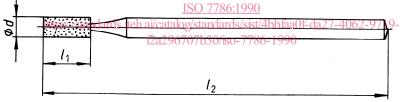
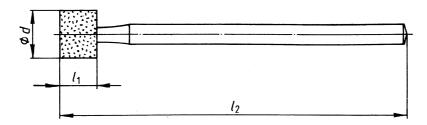




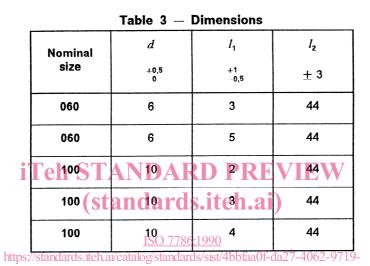
Table 2 — Dimensions

Nominal size	d	l ₁	l ₂
	+0,5 0	+1 -0,5	± 3
021	2	6	44
031	3	6	44
040	4	6	44
050	5	6	44

2

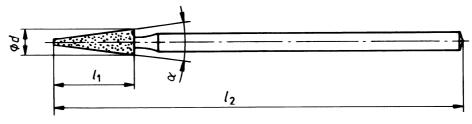






5.2 Truncated conical

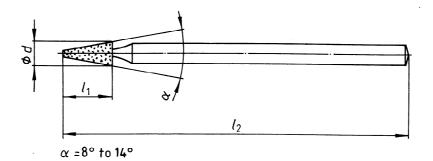
f2a296707b30/iso-7786-1990



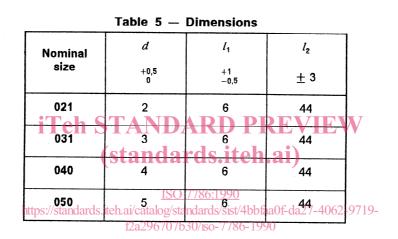
 $\alpha = 6^{\circ}$ to 10°

Figure 4

Table 4 — Dimensions					
Nominal size	d	l ₁	l ₂		
	+0,5 0	+1 -0,5	± 3		
030	3	7	46,5		
035	3,5	10,5	53,5		







4

5.3 Knife edged

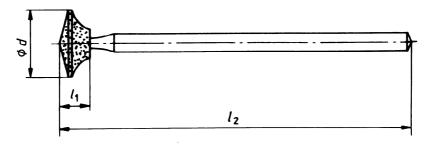
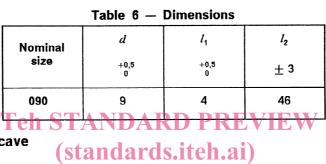


Figure 6



5.4 Inverted conical, concave

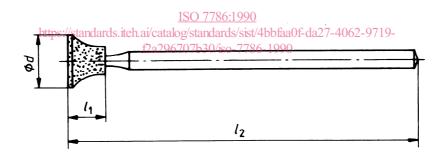


Figure 7

Table 7	' — D	imen	sions
---------	-------	------	-------

Nominal size	đ	l ₁	l ₂
	+0,5 0	+0,5 0	± 3
070	7	5	46